

Serial No.: 09/800,700
Filed: March 6, 2001

32. The method according to claim 31, wherein said mutant intein comprises a mutation at position 389 of said amino acid sequence.

33. The method according to claim 32, wherein said mutation at position 389 comprises an amino acid substitution from R to K.

34. The method according to claim 31, wherein said mutant intein comprises a mutation at position 23 of said amino acid sequence.

35. The method according to claim 34, wherein said mutation at position 23 comprises an amino acid substitution from S to P.

36. The method according to claim 31, wherein said mutant intein comprises a mutation at position 34 of said amino acid sequence.

37. The method according to claim 36, wherein said mutation at position 34 comprises an amino acid substitution from I to V.

38. The method according to claim 31, wherein said mutant intein comprises a mutation at position 320 of said amino acid sequence.

39. The method according to claim 38, wherein said mutation at position 320 comprises an amino acid substitution from D to N.

40. The method according to claim 39, wherein said amino acid sequence comprises a mutation at position 389.

Serial No.: 09/800,700
Filed: March 6, 2001

41. The method according to claim 40, wherein said mutation at position 389 comprises an amino acid substitution from R to K.
42. The method according to claim 39, wherein said amino acid sequence comprises a mutation at position 34.
43. The method according to claim 42, wherein said mutation at position 34 comprises an amino acid substitution from I to V.
44. The method according to claim 39, wherein said amino acid sequence comprises a mutation at position 36.
45. The method according to claim 44, wherein said mutation at position 36 comprises an amino acid substitution from T to A.
46. The method according to claim 39, wherein said amino acid sequence comprises a mutation at position 23.
47. The method according to claim 46, wherein said mutation at position 23 comprises an amino acid substitution from S to P.
48. The method according to claim 39, wherein said amino acid sequence comprises a mutation at position 369.
49. The method according to claim 48, wherein said mutation at position 369 comprises an amino acid substitution from K to R.
50. The method according to claim 30, wherein the amino acid sequence of said mutant

Serial No.: 09/800,700
Filed: March 6, 2001

intein comprises SEQ ID NO: 32.

52. The method according to claim 30, wherein the amino acid sequence of mutant intein comprises SEQ ID NO: 34.

53. The method according to claim 31, wherein the amino acid sequence of mutant intein comprises SEQ ID NO: 36.

54. The method according to claim 31, wherein the amino acid sequence of mutant intein comprises SEQ ID NO: 38.

55. The method according to claim 31, wherein the amino acid sequence of mutant intein comprises SEQ ID NO: 40.

56. The method according to claim 31, wherein the amino acid sequence of mutant intein comprises SEQ ID NO: 42.

57. The method according to claim 31, wherein the amino acid sequence of mutant intein comprises SEQ ID NO: 44.

58. The method according to claim 31, wherein the amino acid sequence of mutant intein comprises SEQ ID NO: 46.